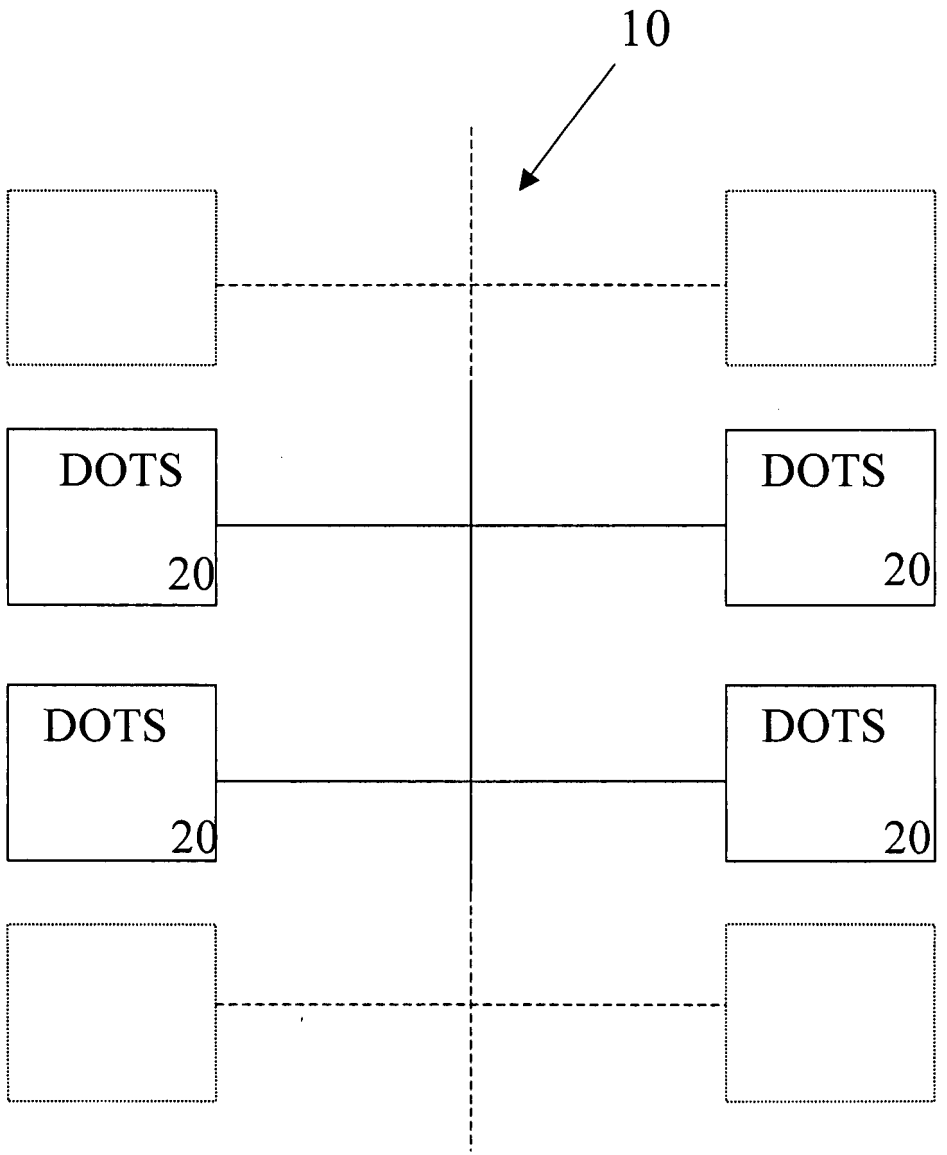


Fig. 1

Patent Application

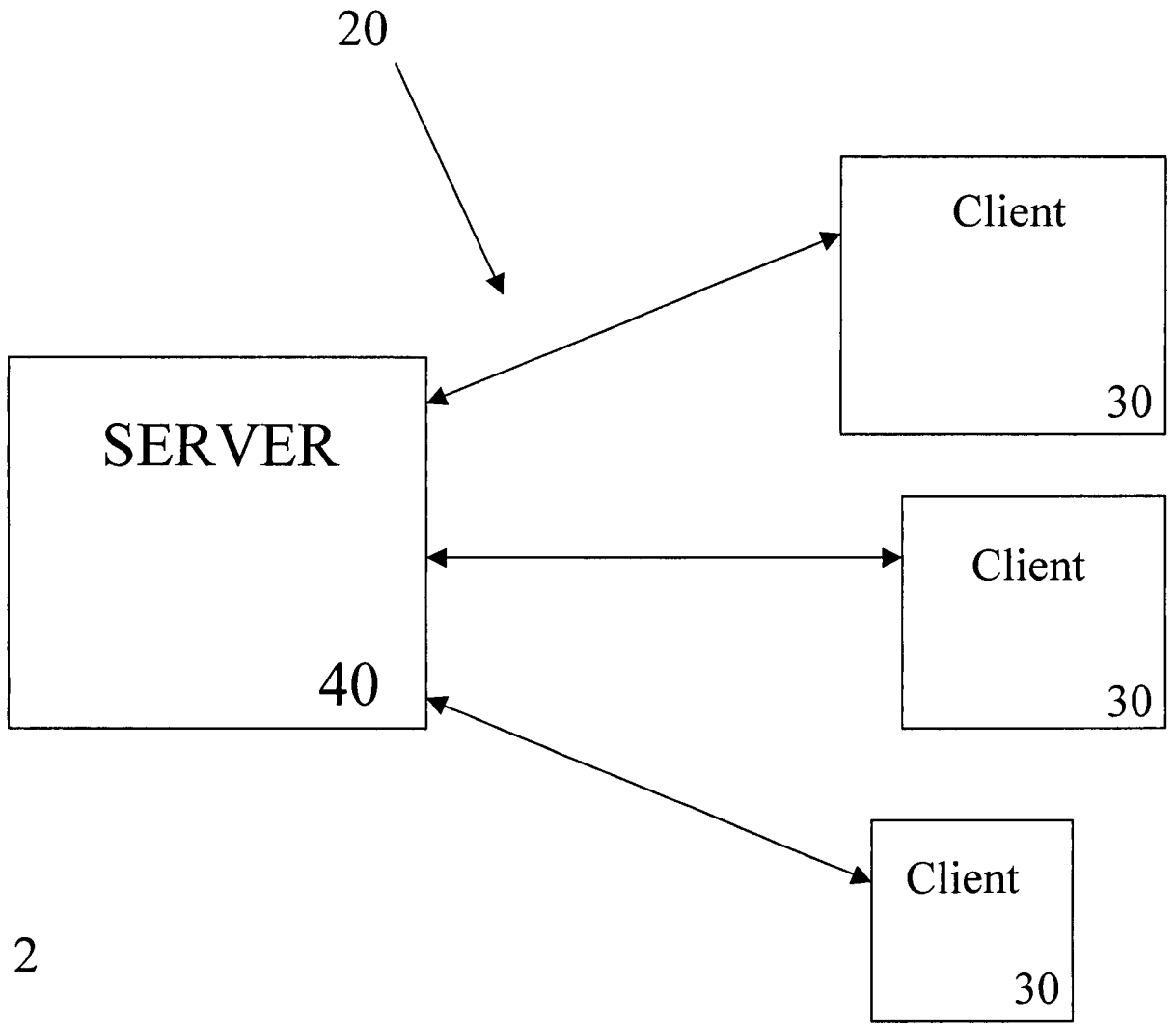


Fig. 2

TOSHIBA 02202CA

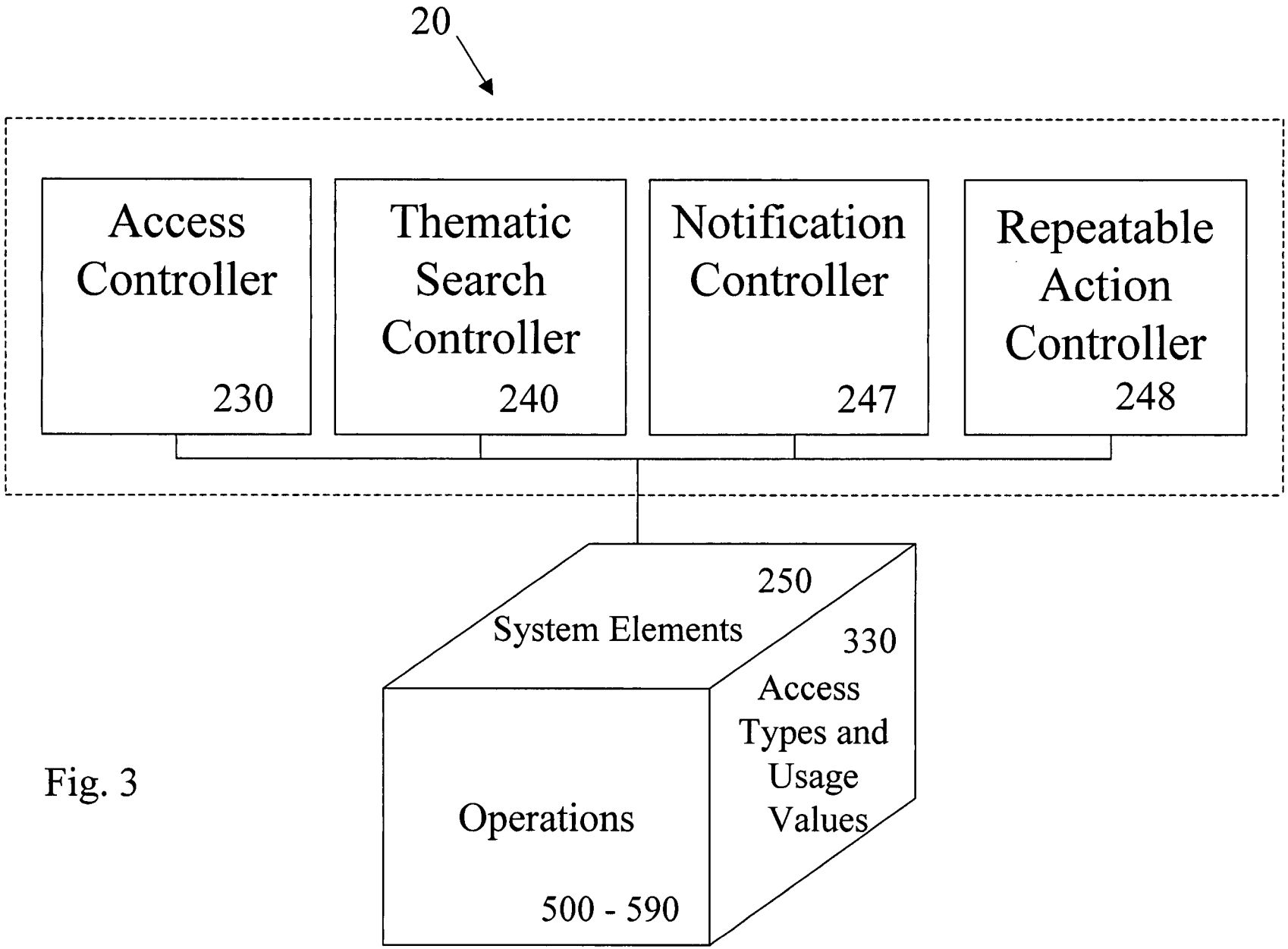


Fig. 3

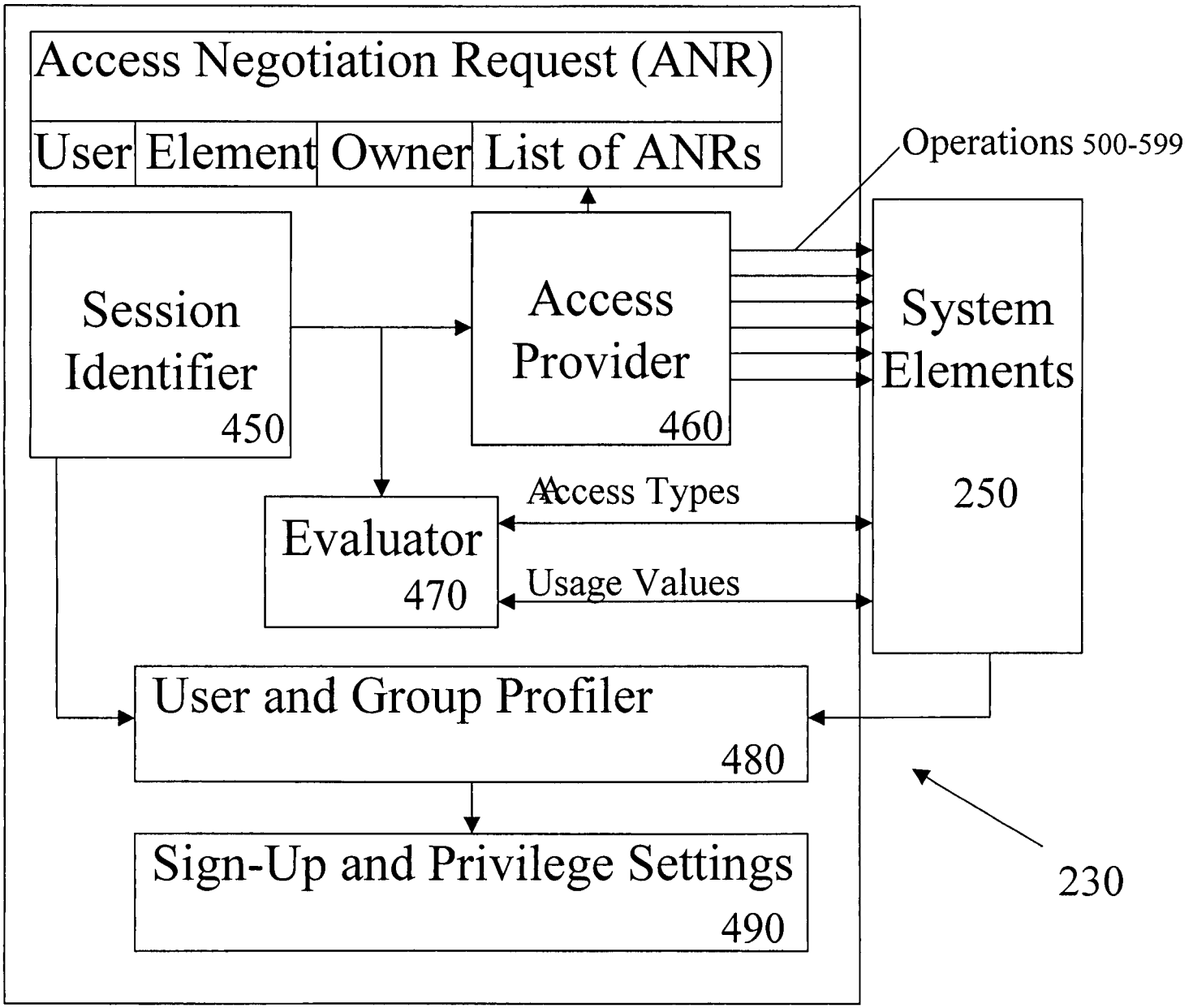

Access Negotiation Request (ANR)
User
Element
Owner
List of ANRs
Operations 500-599
Session Identifier 450
Access Provider 460
System Elements 250
Access Types
Evaluator 470
Usage Values
User and Group Profiler 480
Sign-Up and Privilege Settings 490
230

Fig. 4

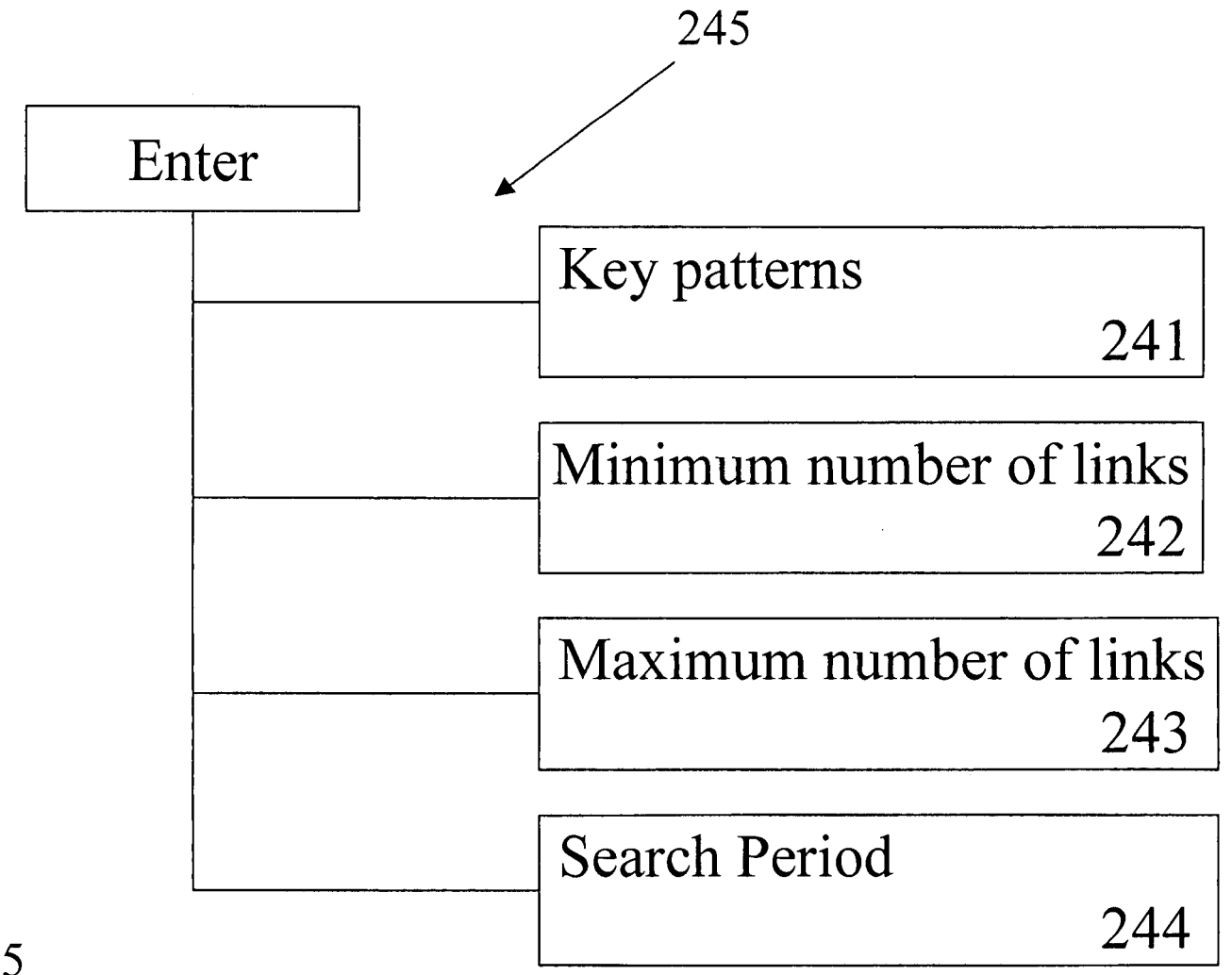

245
Enter
Key patterns
241
Minimum number of links
242
Maximum number of links
243
Search Period
244

Fig. 5

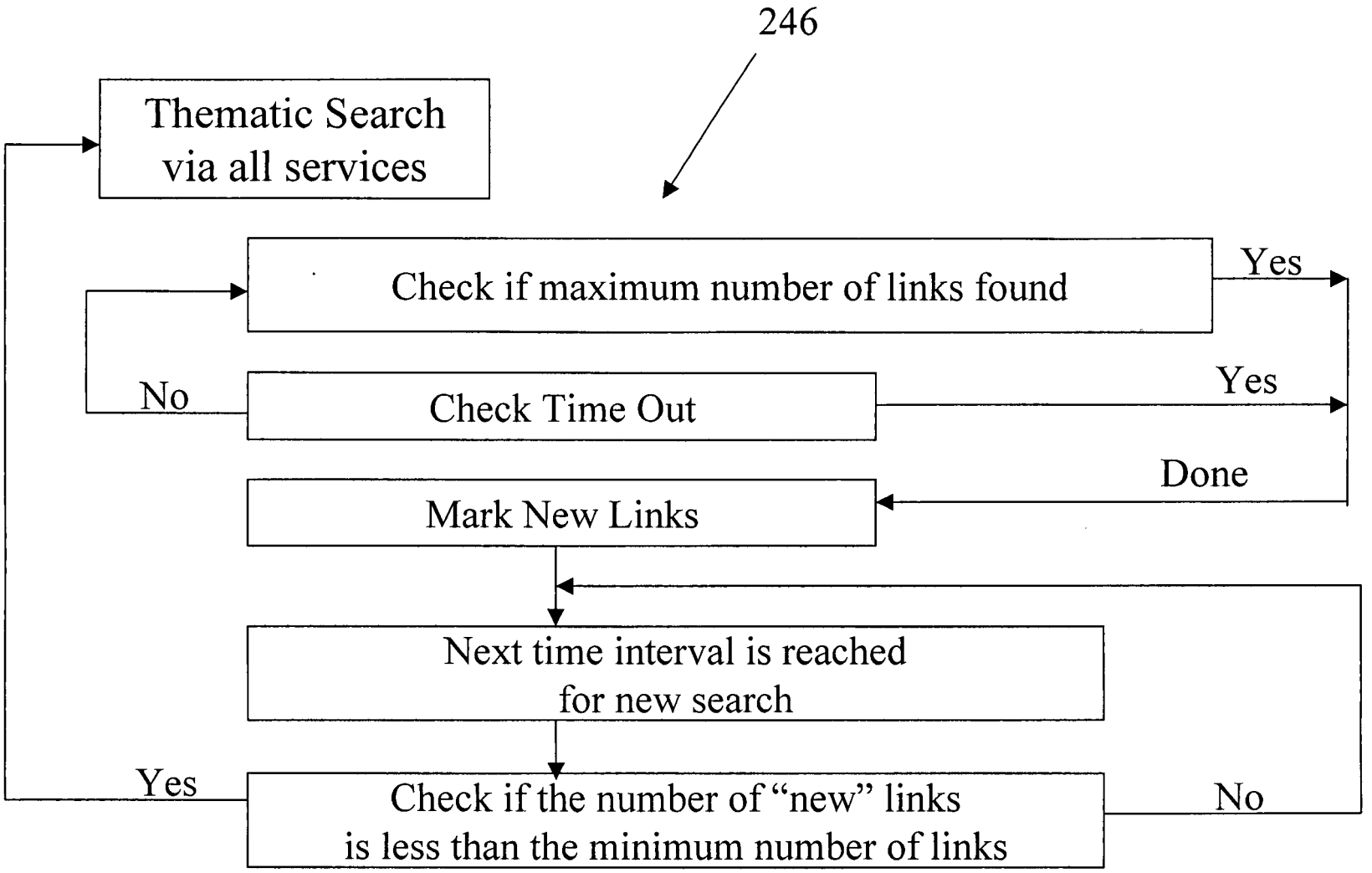
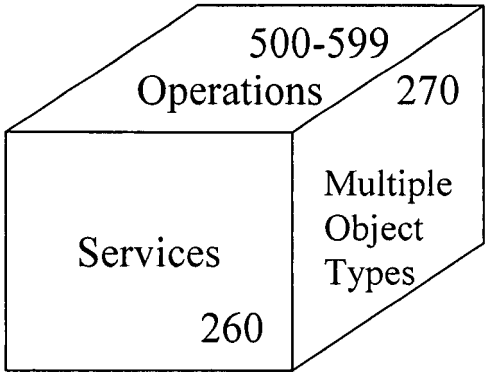

246
Thematic Search via all services
Check if maximum number of links found
Yes
No
Check Time Out
Yes
Done
Mark New Links
Next time interval is reached for new search
Yes
Check if the number of "new" links is less than the minimum number of links
No

Fig. 6



Email	261
Linked Knowledge	262
Visual Database	263
Files and Illustrations	264
Address Book	265
Calendar	266
Remote Control	267
Conferencing (Chat)	268
Task Manager	269

Services 260

Email Messages	271
Linked Articles	272
Database Objects	273
Files and Illustration Objects	274
Address Book Records	275
Calendar Records	276
Remote Control Scenarios	277
Conferencing (Chat) Sessions	278
Task Management Forms	279

Multiple Object Types 270

250

Fig. 7

Fig. 8

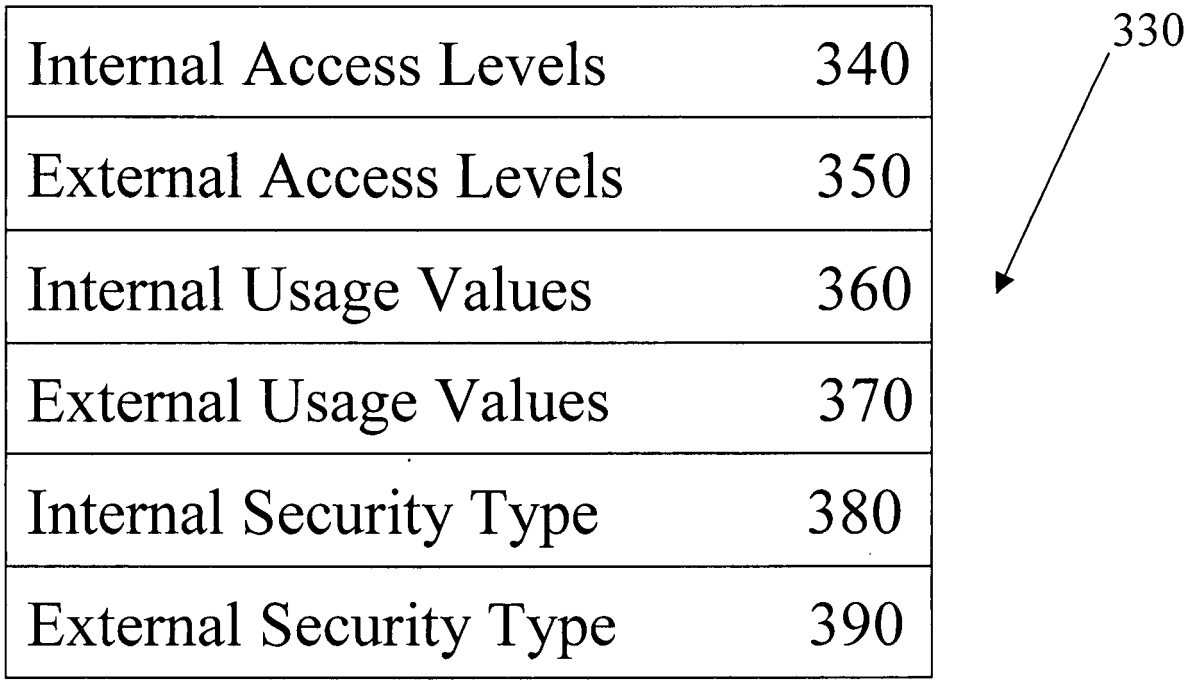
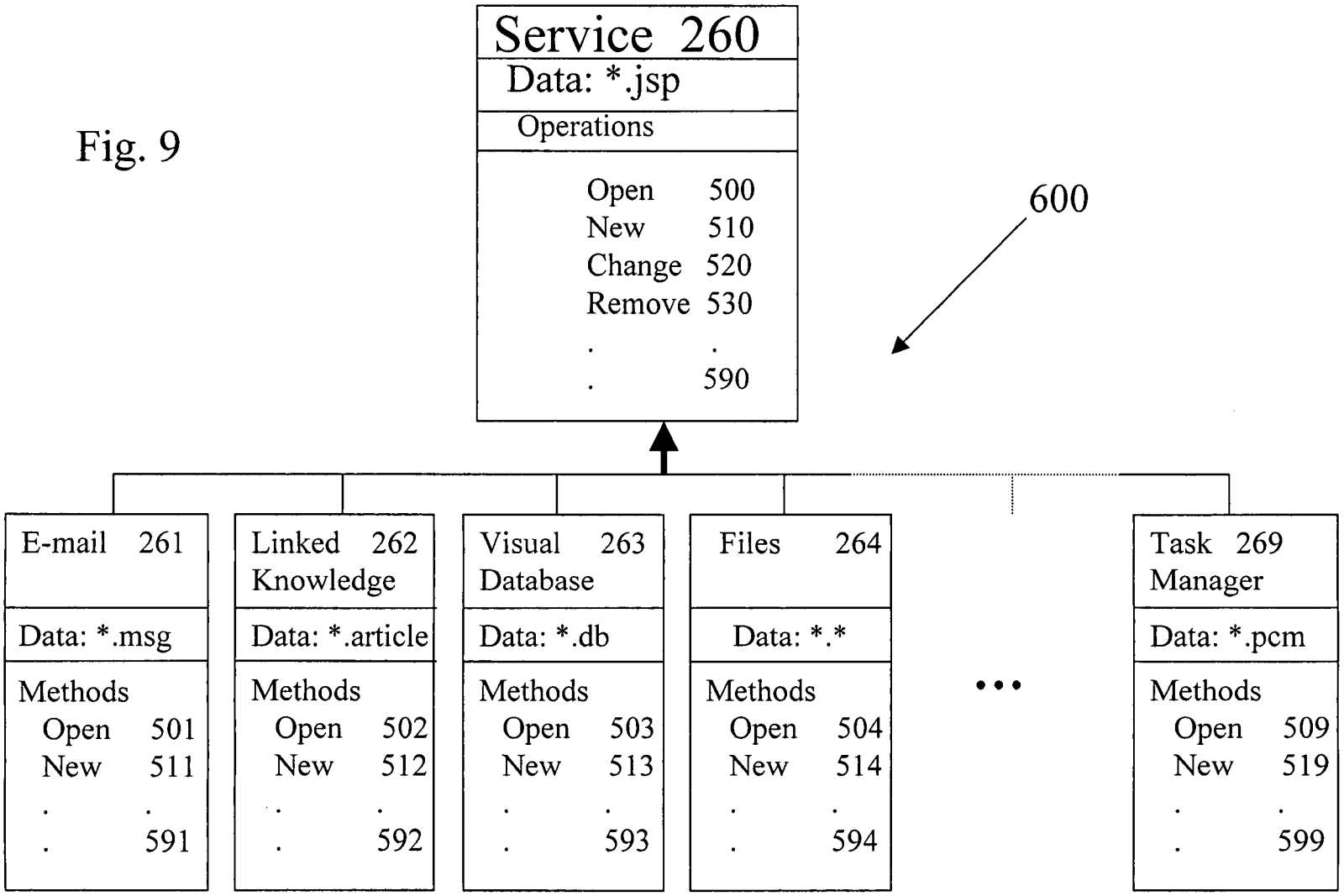

Internal Access Levels 340
External Access Levels 350
Internal Usage Values 360
External Usage Values 370
Internal Security Type 380
External Security Type 390
330
Usage Values
Usage Summary
Bookmarks
New Usage Indicators
Trash Flags

Fig. 9



String[] serviceNames = {'Service", 'E-mail", 'Linked_knowledge", ...];
Service service = (service)Class.forName(serviceNames[I].newInstance())

Fig. 10

610

	Operations On Services		Operations on Multiple Object Types	
			Email	Task Manager
Personal & Group Operations	Open	500	501	509
	New	510	511	519
	Change	520	.	.
	Remove	530	.	.
	Bookmark	540	.	.
	Show Favorites	550		
	Show Trash	560		
Group Operations			.	.
	Show News	570	.	.
	Show History	580	591	599
	Check/Set Access	590		

Fig. 11

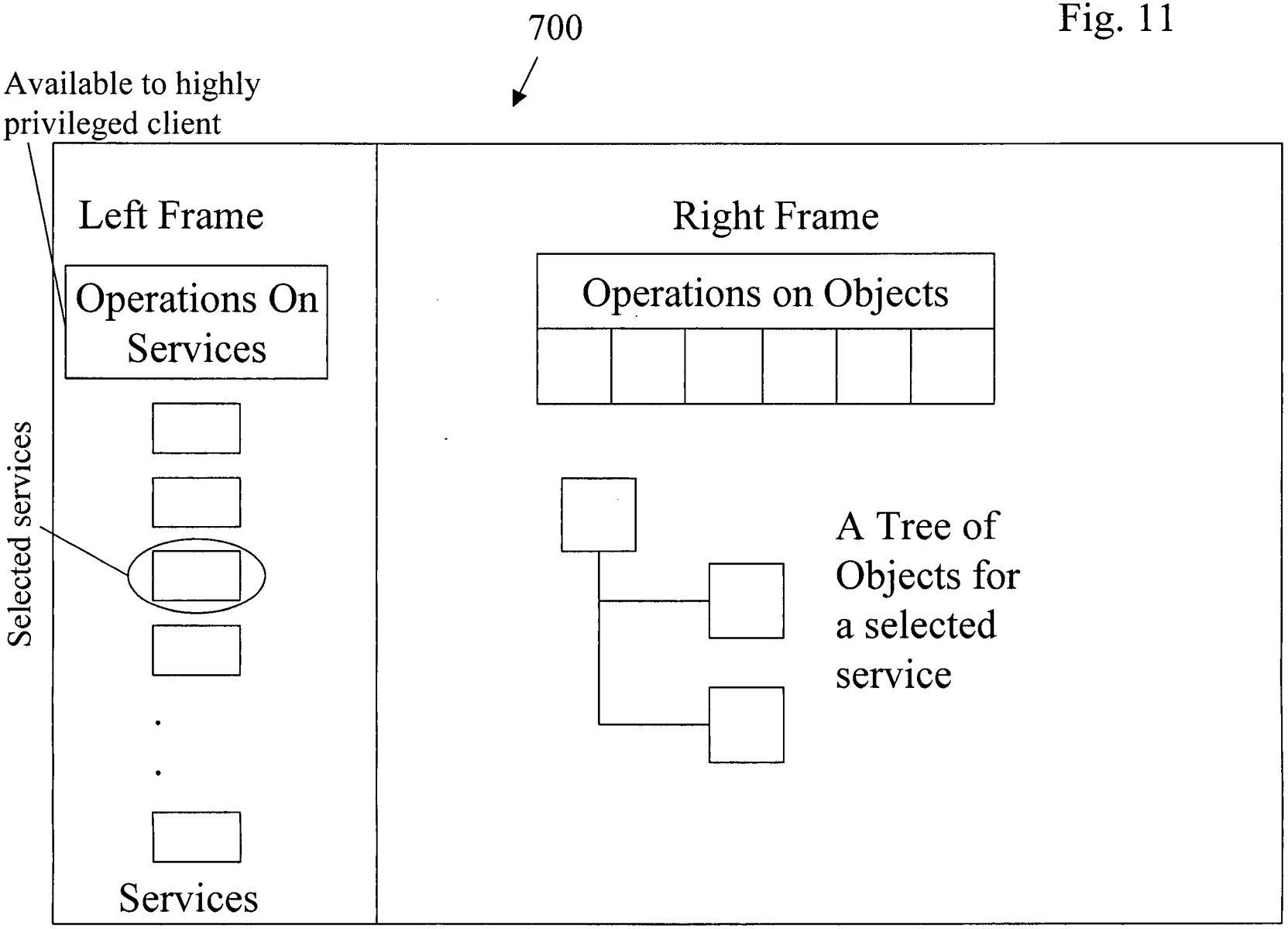
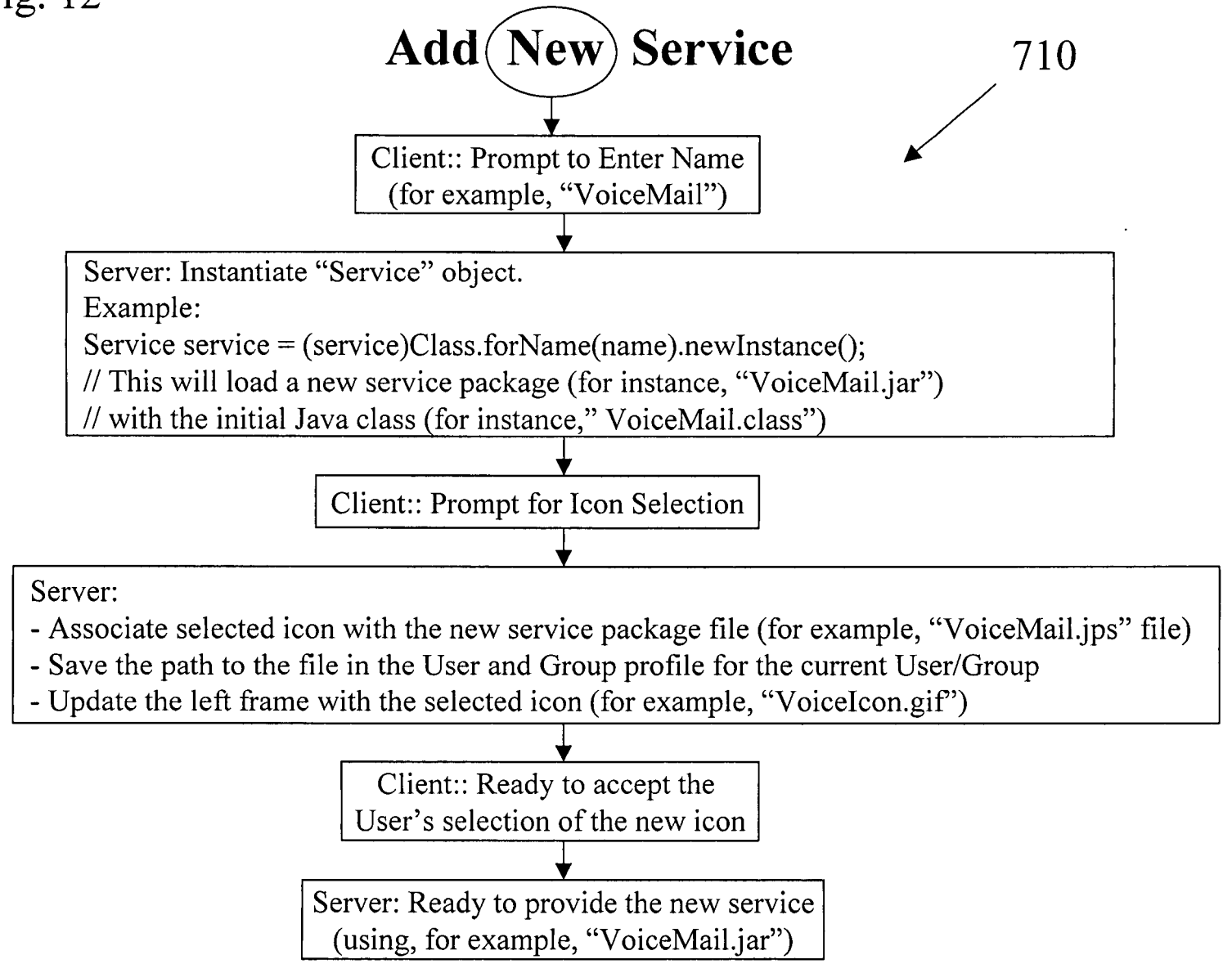

700
Available to highly privileged client
Left Frame
Operations On Services
Selected services
Services
Right Frame
Operations on Objects
A Tree of Objects for a selected service

Fig. 12


Add New Service
710
Client:: Prompt to Enter Name (for example, "VoiceMail")
Server: Instantiate "Service" object.
Example:
Service service = (service)Class.forName(name).newInstance();
// This will load a new service package (for instance, "VoiceMail.jar")
// with the initial Java class (for instance," VoiceMail.class")
Client:: Prompt for Icon Selection
Server:
- Associate selected icon with the new service package file (for example, "VoiceMail.jps" file)
- Save the path to the file in the User and Group profile for the current User/Group
- Update the left frame with the selected icon (for example, "VoiceIcon.gif")
Client:: Ready to accept the User's selection of the new icon
Server: Ready to provide the new service (using, for example, "VoiceMail.jar")

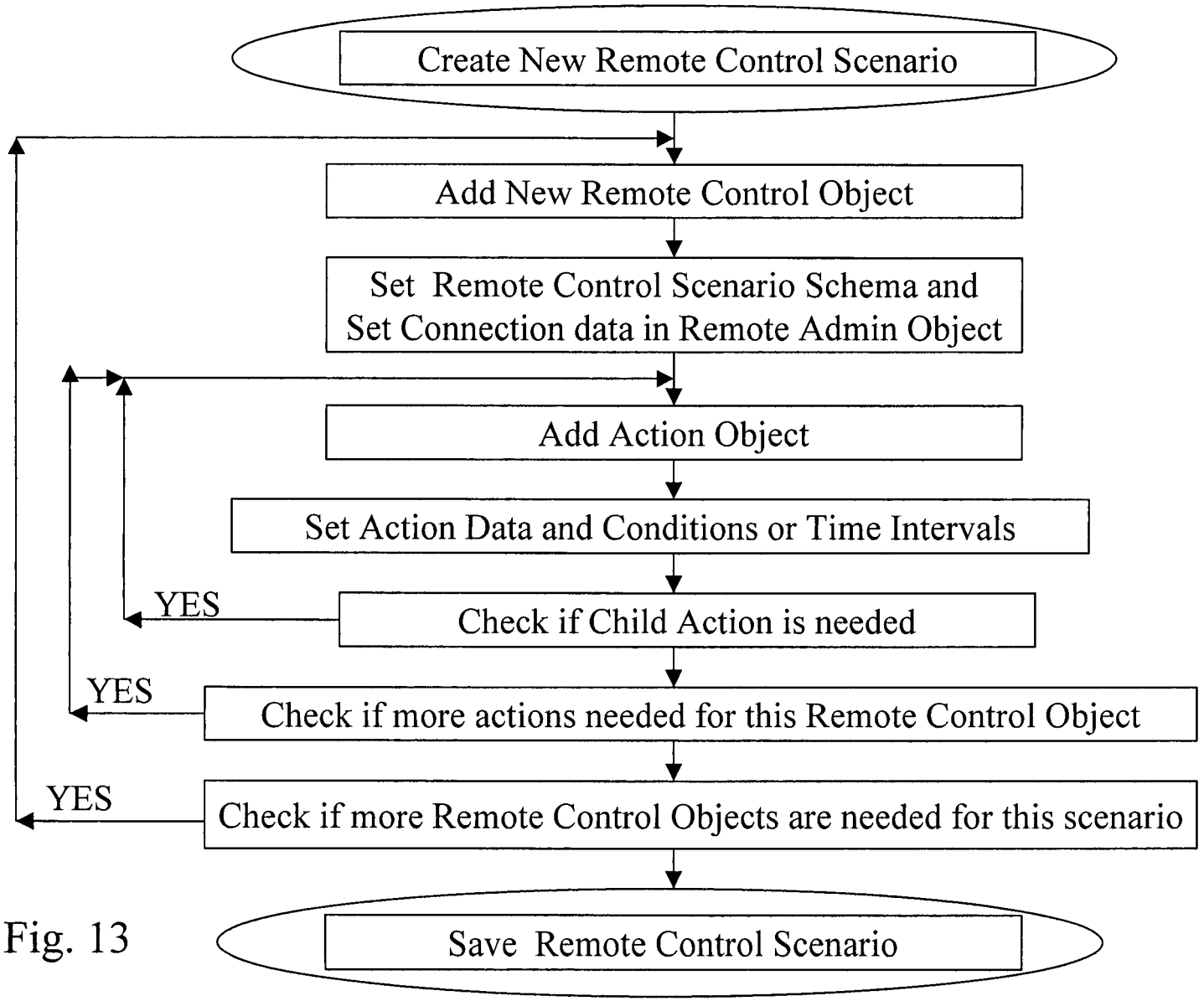

Create New Remote Control Scenario
Add New Remote Control Object
Set Remote Control Scenario Schema and
Set Connection data in Remote Admin Object
Add Action Object
Set Action Data and Conditions or Time Intervals
YES
Check if Child Action is needed
YES
Check if more actions needed for this Remote Control Object
YES
Check if more Remote Control Objects are needed for this scenario
Save Remote Control Scenario

Fig. 13

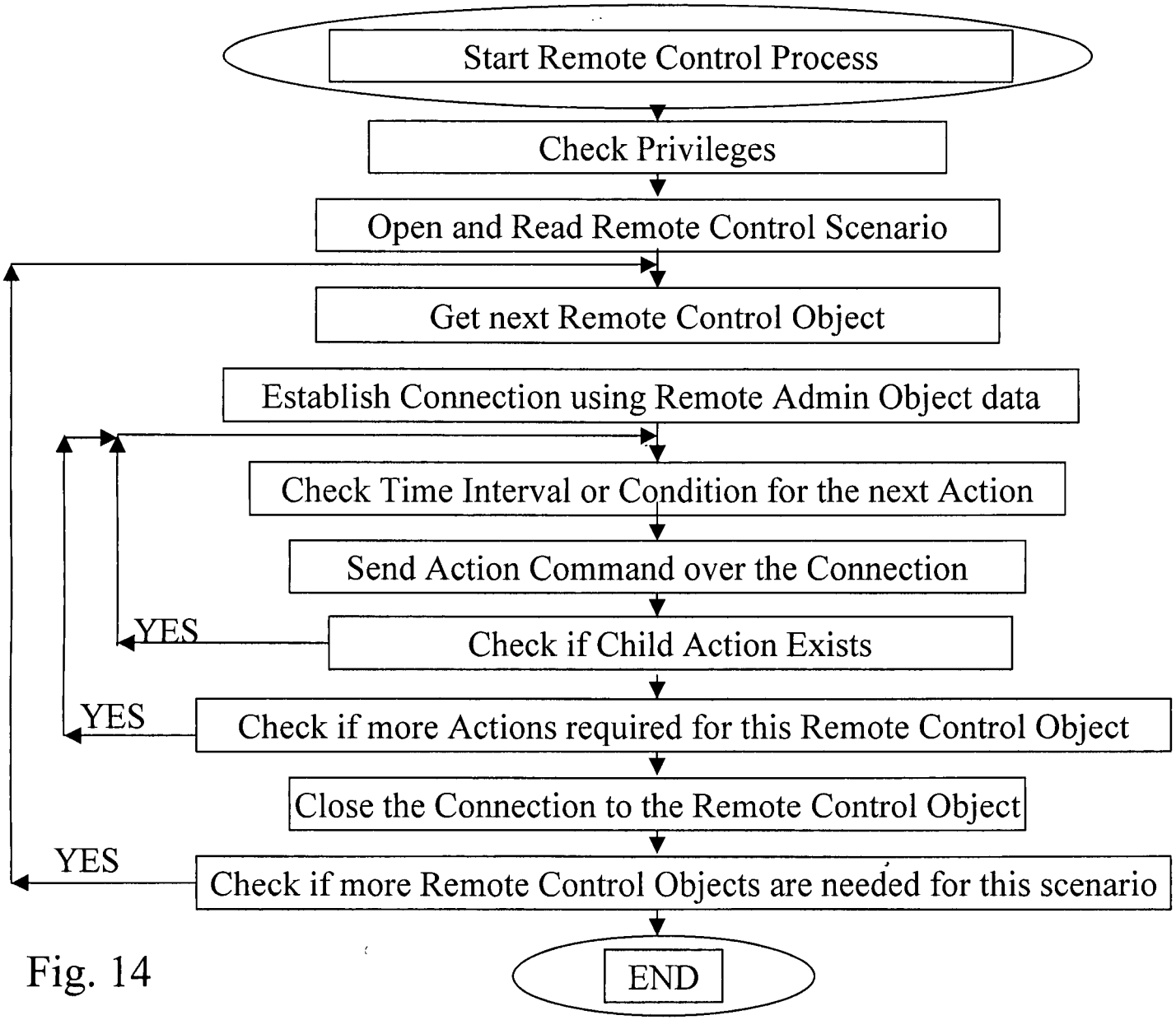

Start Remote Control Process
Check Privileges
Open and Read Remote Control Scenario
Get next Remote Control Object
Establish Connection using Remote Admin Object data
Check Time Interval or Condition for the next Action
Send Action Command over the Connection
YES
Check if Child Action Exists
YES
Check if more Actions required for this Remote Control Object
Close the Connection to the Remote Control Object
YES
Check if more Remote Control Objects are needed for this scenario
END

Fig. 14

Fig. 15

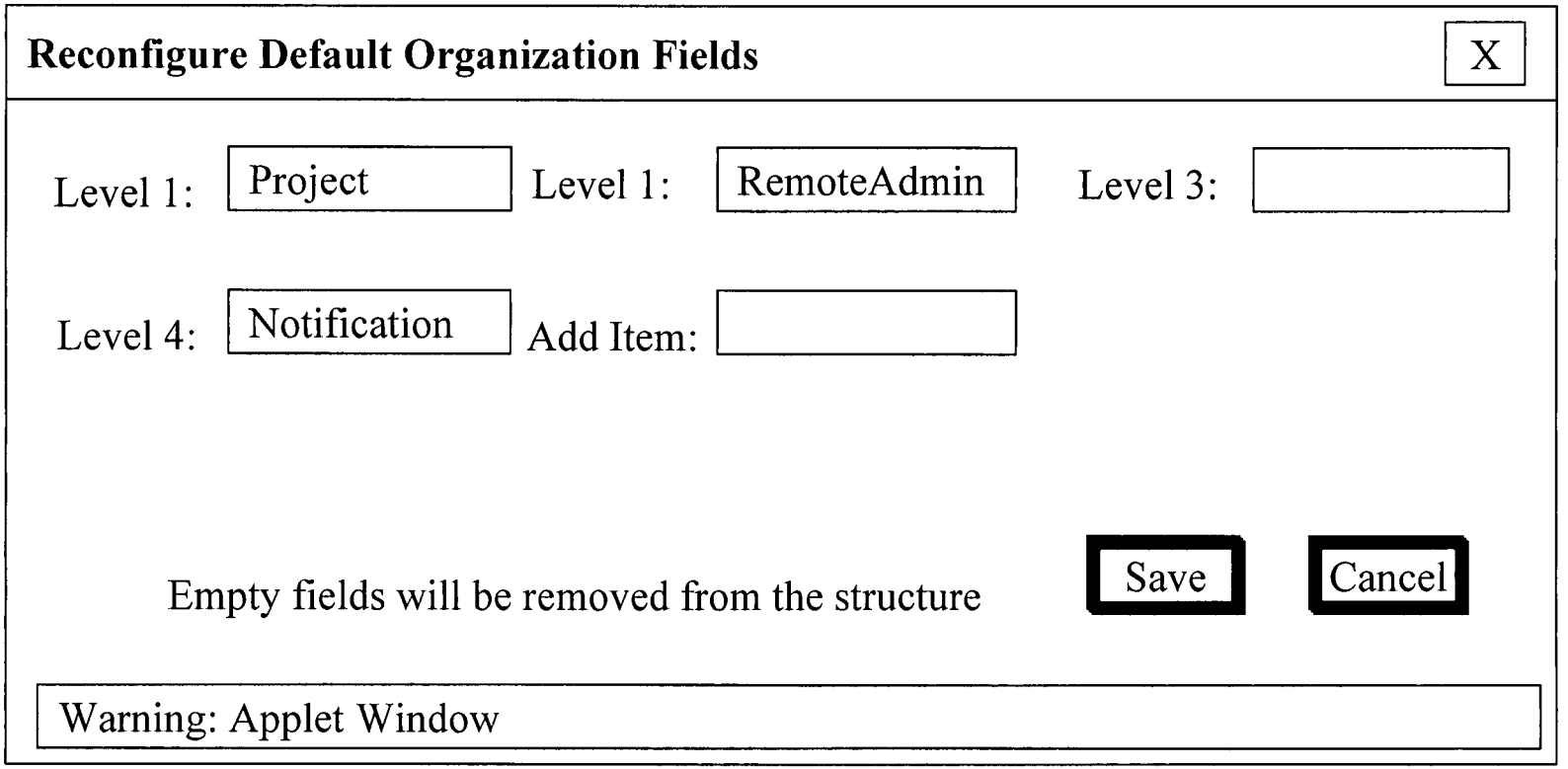

Reconfigure Default Organization Fields
X
Level 1:
Project
Level 1:
RemoteAdmin
Level 3:
Level 4:
Notification
Add Item:
Empty fields will be removed from the structure
Save
Cancel
Warning: Applet Window

Fig. 16

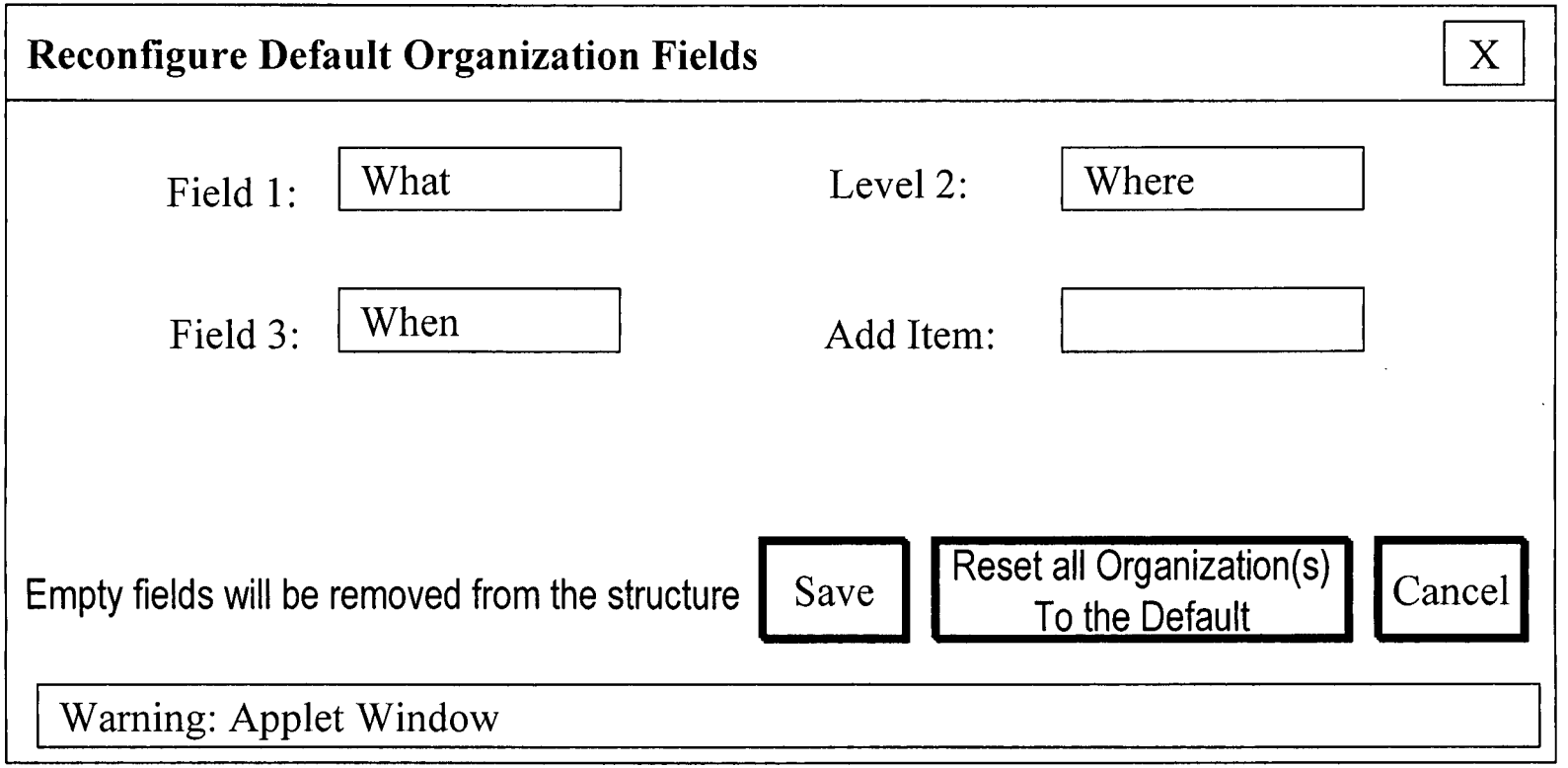

Reconfigure Default Organization Fields
X
Field 1:
What
Level 2:
Where
Field 3:
When
Add Item:
Empty fields will be removed from the structure
Save
Reset all Organization(s) To the Default
Cancel
Warning: Applet Window

Fig. 17(a)

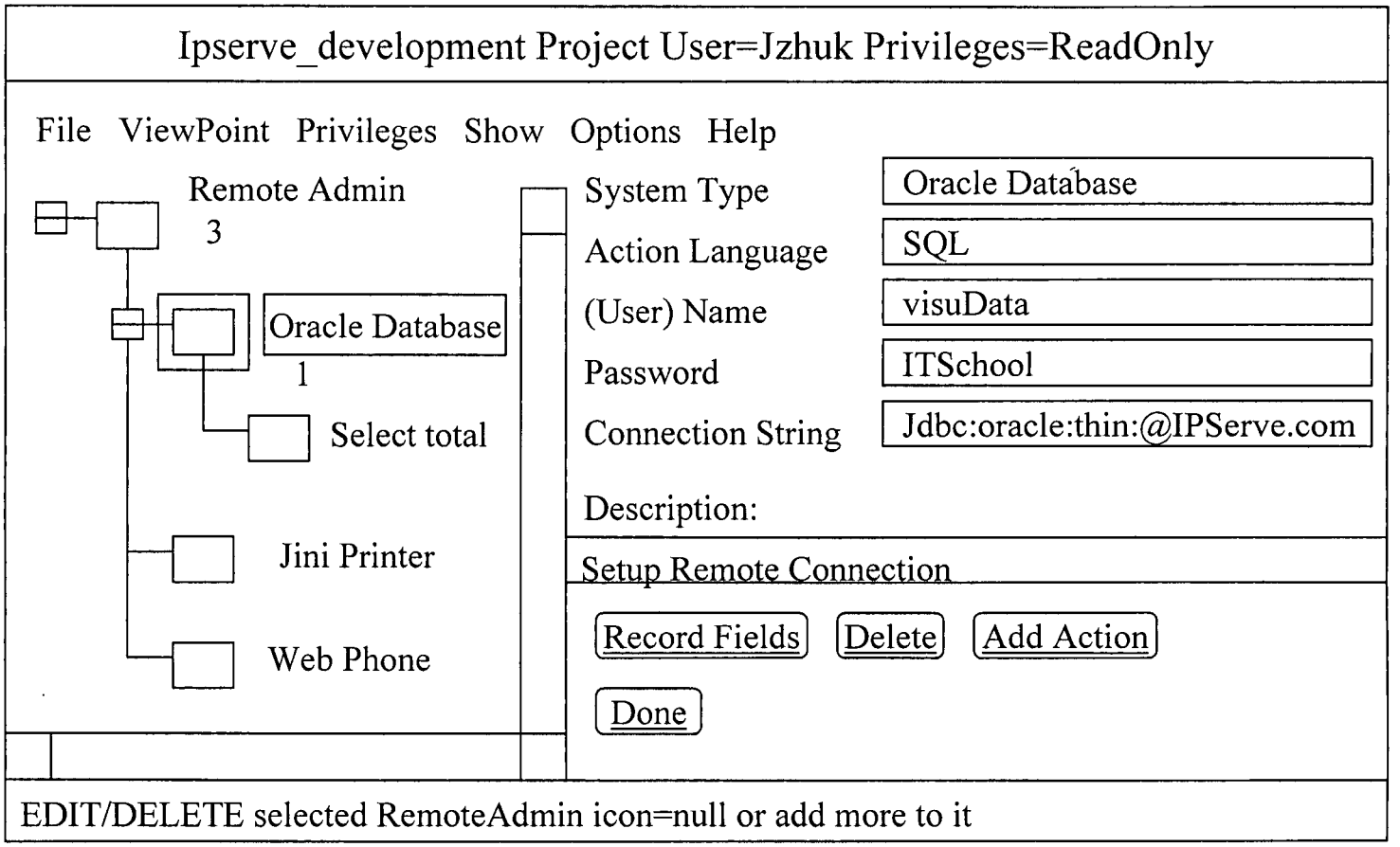

Ipserve_development Project User=Jzhuk Privileges=ReadOnly
File ViewPoint Privileges Show Options Help
Remote Admin
3
Oracle Database
1
Select total
Jini Printer
Web Phone
System Type
Oracle Database
Action Language
SQL
(User) Name
visuData
Password
ITSchool
Connection String
Jdbc:oracle:thin:@IPServe.com
Description:
Setup Remote Connection
Record Fields
Delete
Add Action
Done
EDIT/DELETE selected RemoteAdmin icon=null or add more to it

Fig. 17(b)

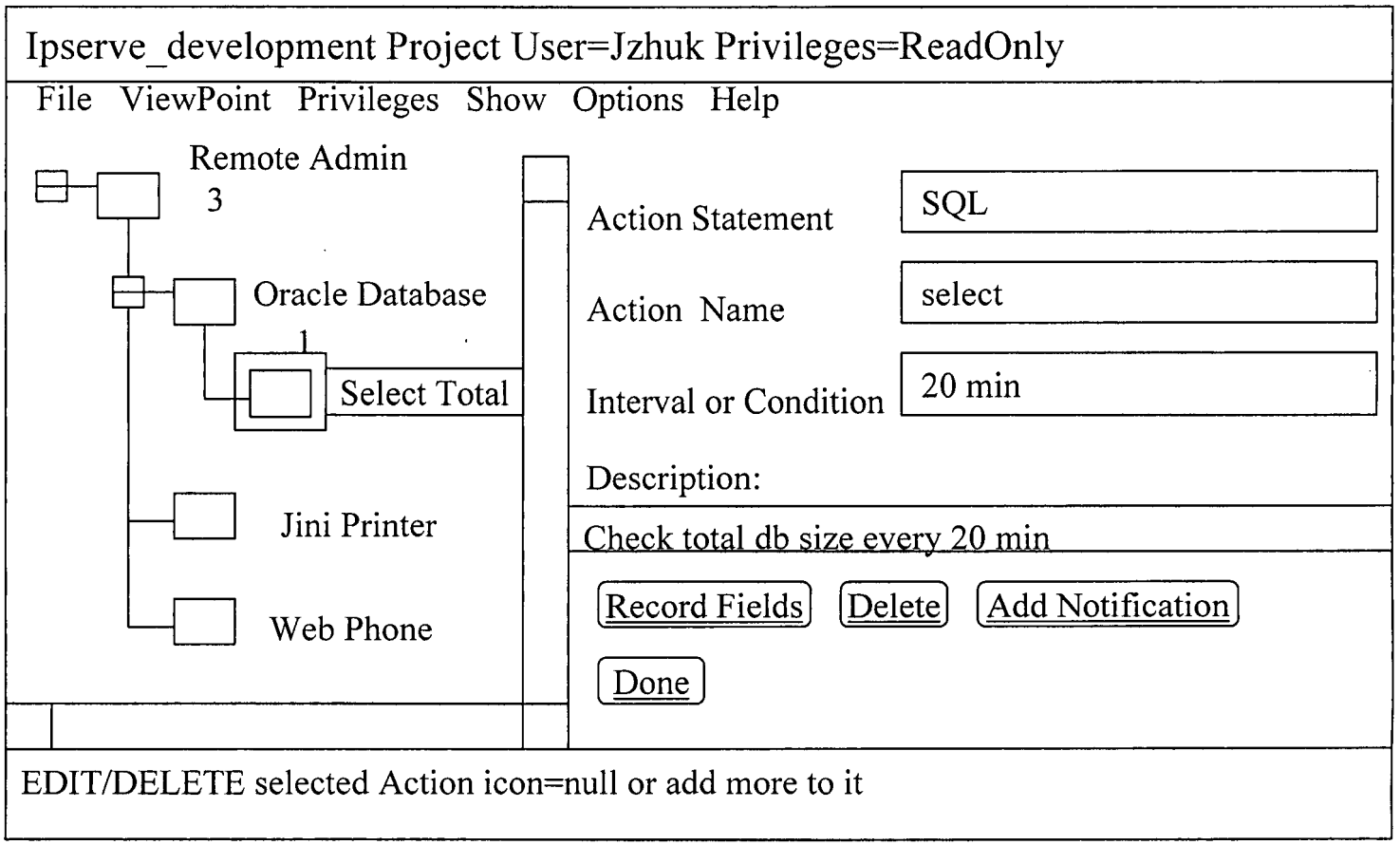

Ipserve_development Project User=Jzhuk Privileges=ReadOnly
File ViewPoint Privileges Show Options Help
Remote Admin
3
Oracle Database
1
Select Total
Jini Printer
Web Phone
Action Statement
SQL
Action Name
select
Interval or Condition
20 min
Description:
Check total db size every 20 min
Record Fields
Delete
Add Notification
Done
EDIT/DELETE selected Action icon=null or add more to it

Fig. 17(c)

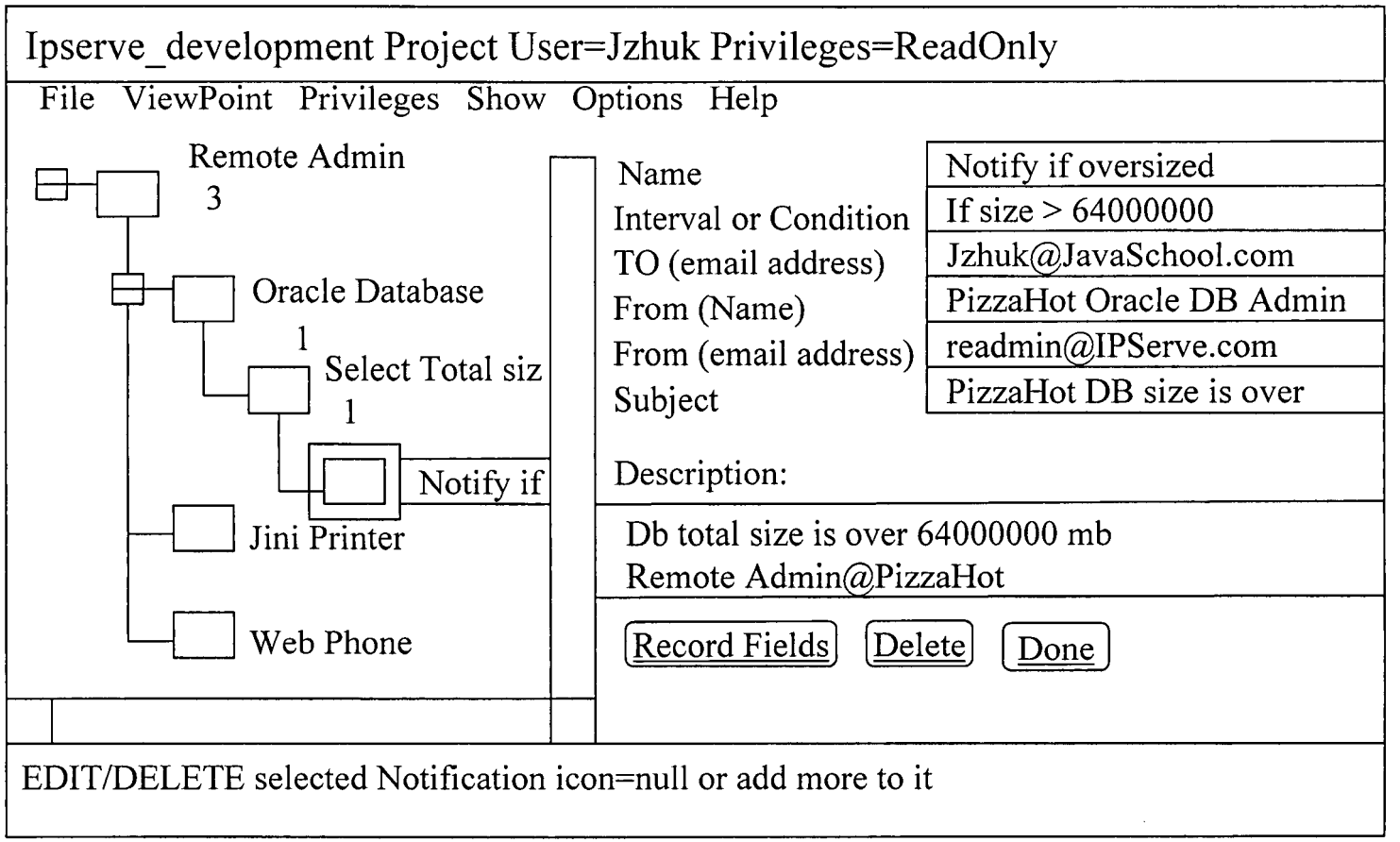

Ipserve_development Project User=Jzhuk Privileges=ReadOnly
File ViewPoint Privileges Show Options Help
Remote Admin
3
Oracle Database
1
Select Total siz
1
Notify if
Jini Printer
Web Phone
Name
Interval or Condition
TO (email address)
From (Name)
From (email address)
Subject
Notify if oversized
If size > 64000000
Jzhuk@JavaSchool.com
PizzaHot Oracle DB Admin
readmin@IPServe.com
PizzaHot DB size is over
Description:
Db total size is over 64000000 mb
Remote Admin@PizzaHot
Record Fields
Delete
Done
EDIT/DELETE selected Notification icon=null or add more to it

Fig. 17(d)

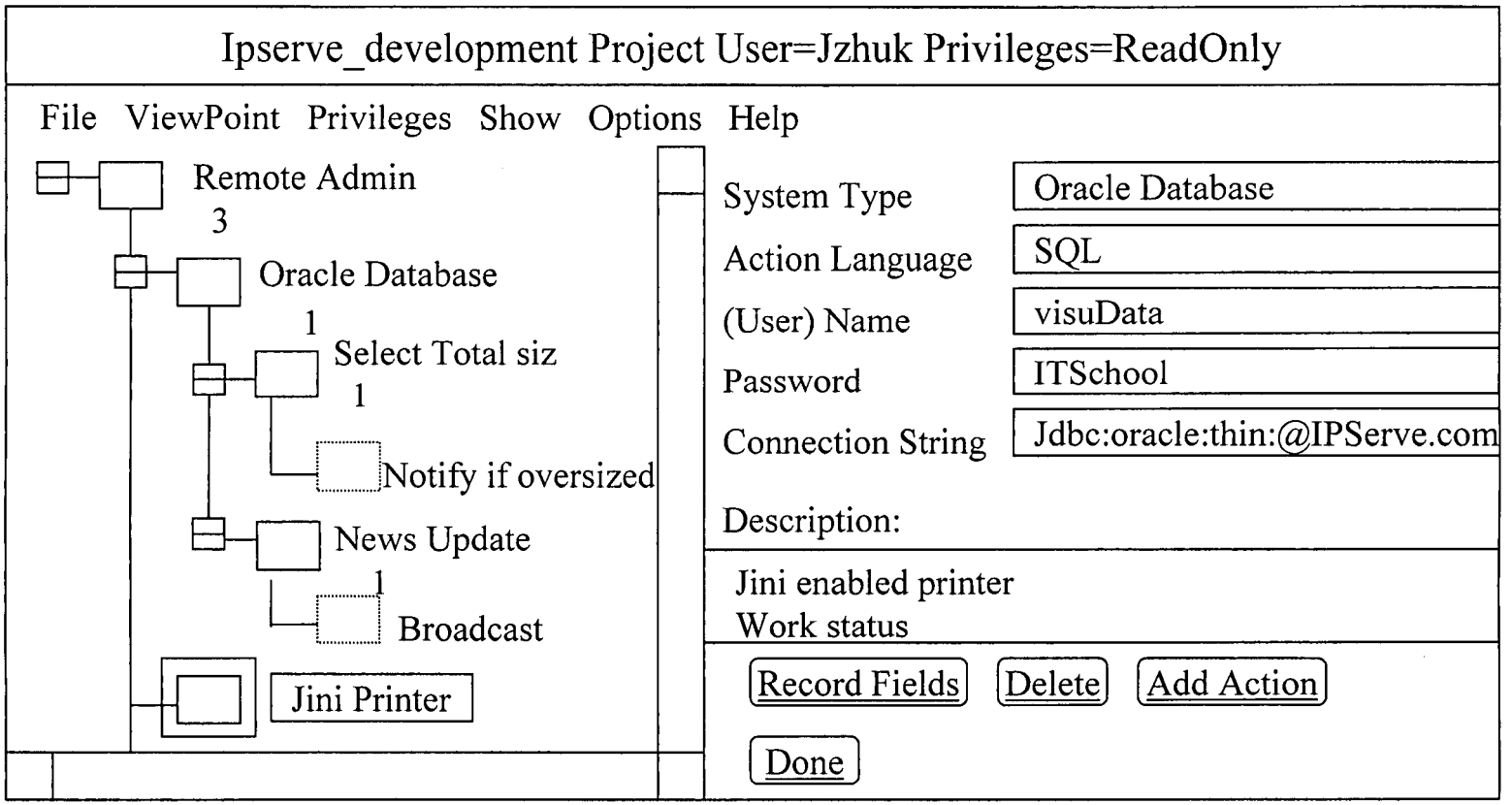
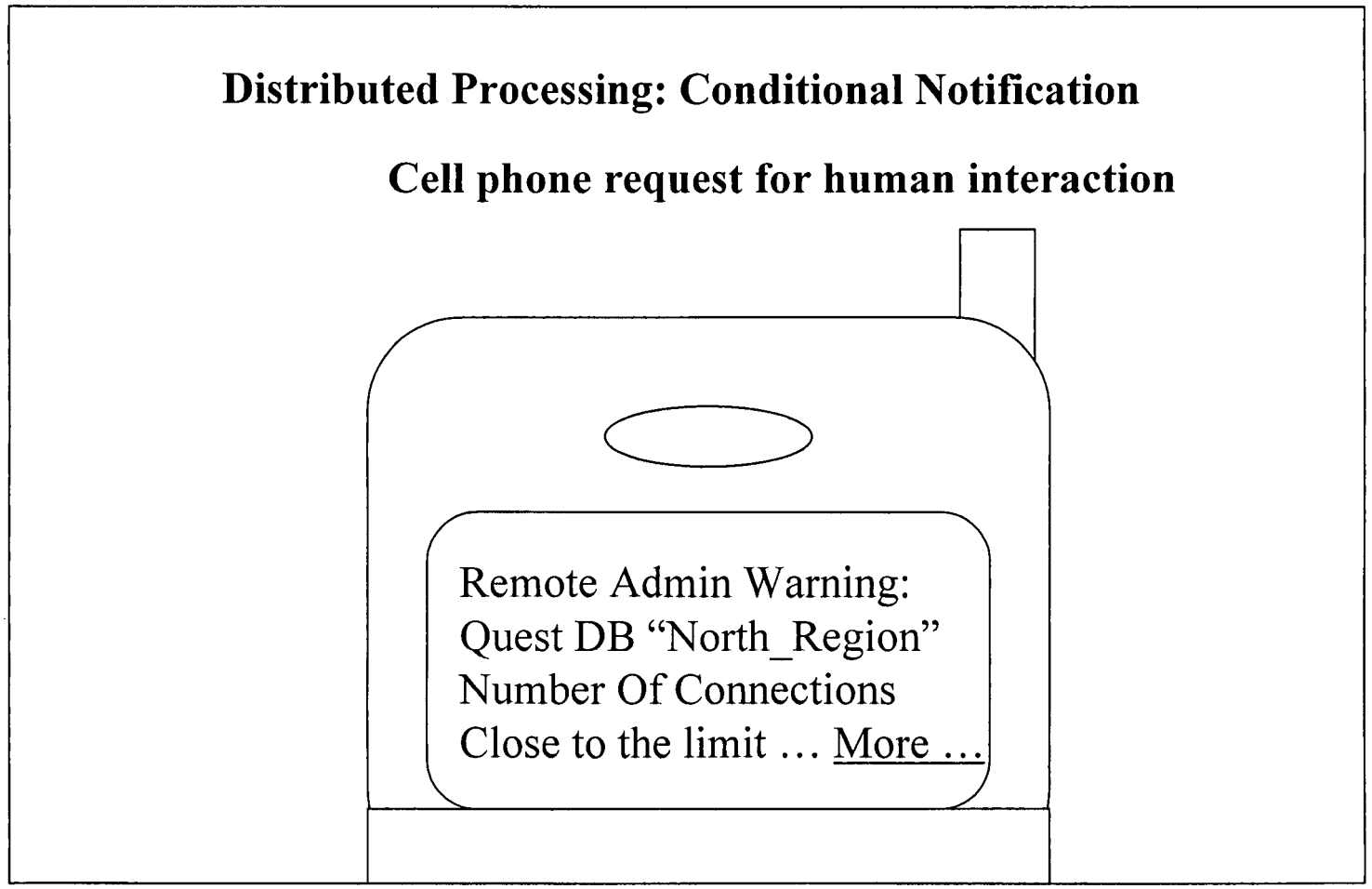

Ipserve_development Project User=Jzhuk Privileges=ReadOnly
File ViewPoint Privileges Show Options Help
Remote Admin
3
Oracle Database
1
Select Total siz
1
Notify if oversized
News Update
1
Broadcast
Jini Printer
System Type
Oracle Database
Action Language
SQL
(User) Name
visuData
Password
ITSchool
Connection String
Jdbc:oracle:thin:@IPServe.com
Description:
Jini enabled printer
Work status
Record Fields
Delete
Add Action
Done

Fig. 18


Distributed Processing: Conditional Notification
Cell phone request for human interaction
Remote Admin Warning:
Quest DB "North_Region"
Number Of Connections
Close to the limit … More …